VENKATA MUKUND KASHYAP YEDUNUTHALA

Student

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PERSONAL INFORMATION

Name   Venkata Mukund Kashyap Yedunuthala
Address   Halsbrücker Str. 12, 09599 Freiberg.
Birthday, -Place 16.07.1997 in Warangal, Telangana, India.
Citizenship   Indian

EDUCATION

M.Sc. Computational Materials Science

Technische Universität Bergakademie Freiberg

📅 10/2019 - Present

- Expected completion in Winter, 2023.

Bachelor of Engineering in Mechanical Engineering

Chaitanya Bharathi Institute of Technology

📅 08/2015 - 07/2019   📍 Hyderabad, Telangana, India

- First class with distinction

GPA
8.6 / 10

PROJECTS

Modeling of radiative heat-exchange using finite element method

📅 05/2022 - 11/2022   📍 TU Bergakademie Freiberg

Solid mechanics │ Finite Element Analysis │ Python

- Complete implementation of finite element model and Newton solver in Python using NumPy, matplotlib.
- Documented using Sphinx module.

Gradient Boosting Machine with Local Regression to predict material properties.

📅 10/2021 - 04/2022   📍 TU Bergakademie Freiberg

Machine Learning │ Ensemble methods │ Python

- Implemented in Python using NumPy, Matplotlib.
- Accessed REST API of The Materials Project for data and documented using Sphinx.

Image captioning using reinforcement learning

📅 11/2021 - 02/2022   📍 TU Bergakademie Freiberg

Machine Learning │ Deep Reinforcement Learning │ Python

- A team project to generate captions for images using policy network - reward model.
- Implemented in Python using TensorFlow, Pandas, Jupyter and Matplotlib.

Image processing using MPI

📅 10/2020 - 03/2021   📍 TU Bergakedemie Freiberg

High Performance Computing │ Parallel Processing │ C++

- Implemented in C++ to perform a scalability study on university's high performance computing cluster.
- Documented using Doxygen.

CERTIFICATIONS

Goethe Zertifikat B1

German language certificate issued by Goethe Institute.

Deutsch Kommunikation in Studium und Beruf

TU Bergakademie Freiberg, 2022. Soft skills course in German.

SKILLS

Programming

`Python` `C++` `Rust` `Fortran` `Matlab`

Libraries / Modules

`NumPy` `Matplotlib` `Sphinx` `Doxygen` `CMake` `MPI` `OpenMP`

Others

`Git` `LaTeX` `Markdown`

LANGUAGES

Telugu
Native
●●●●●

English
Proficient (C1)
●●●●○

German
Advanced (B2)
●●●○○

ACHIEVEMENTS

PRACE Summer of HPC 2021
Selected to participate in Partnership for Advanced Computing in Europe's initiative called Summer of HPC to enhance skills in High Performance Computing.

STRENGTHS

Teamwork   **Flexibility**

PASSIONS

Gaming   **Photography**   **Model United Nations**